

CONTROL DATA®

2314

9736 \$9,950

CONTROL DATA
CORPORATION

9736/9737 DISK STORAGE UNITS

DESIGNED FOR ORIGINAL EQUIPMENT MANUFACTURERS



The CONTROL DATA 9736 and 9737 Disk Storage Units are large-capacity, random-access storage devices which record and read information in IBM-compatible recording modes. The recording format is fully compatible with the IBM 2314 Direct Access Storage Facility, permitting full pack interchangeability between the 9736/9737 and any machine using the same recording format.

The basic disk storage unit consists of a cabinet which contains a spindle and associated drive motor, head-positioning mechanism, power supply, and logic chassis. The 9736/9737 models use the CDC® 869 Disk Pack or equivalent (IBM 2316). The disk pack contains eleven disks and stores information on twenty oxide-coated surfaces.

Head positioning is performed by a closed loop, proportional servosystem. The carriage is driven by a voice coil linear actuator, allowing rapid accessing.

These storage units are available in single-channel (9736) or dual-channel (9737) models. Both models have an optional seek-overlap feature which enables seek operations to be performed on all spindles which are not being used for read/write operations. The dual-channel, 9737, allows read/write operations to occur on two units simultaneously (when two interface units are used), while seek operations are performed on other spindles.

9736/9737 OEM DISK STORAGE UNIT SPECIFICATIONS

RECORDING FORMAT/CAPACITY

Capacity, full track mode spindle:
62,500 bits/track (nominal)
 1.25×10^6 bits/cylinder
 250×10^6 bits/cylinder (based on 200 tracks)

Recording Mode: Double frequency

Recording Density: 1530 bpi (outer track)
2220 bpi (inner track)

Tracks Per Surface: 200 (plus 3 spares)

PROCESSING SPEED

Data Transfer Rate: 312,000 bytes/second

Bit Rate: 2.50 MHz (nominal)

Spindle Speed: 2400 rpm

ACCESSING TIME (Direct Seek on Track)

Full Stroke: 70 milliseconds

Average: 35 milliseconds

One Track: 7 milliseconds

DISK PACK

Type: CDC 869 or equivalent (IBM 2316)

Number of Disks: 11

Usable Surfaces: 20

Diameter: 14 inches

Coating: Magnetic oxide

RECORDING HEADS PER SPINDLE

Type: Saddle erase (compatible with IBM 2314)

Total Number: 20

Read/Write Width: 0.007-inch, nominal

Read/Write to Erase Gap: 0.003-inch, nominal

Erase Width: 0.012-inch, nominal

Track Spacing: 0.010-inch, nominal

OPERATOR CONTROL

Switch/Indicators: Start (stop)
Logic Number (interchangeable plug)
Fault
Indicator Only: Unit Number
Maintenance

INTERFACE

Transmission Level/s: Logical "0"=zero volts differential
Logical "1"=1.4 volts differential

Rise and Fall Time: 25 nanoseconds (nominal)

Transmission Line: Balanced, twisted pair, terminated in
56 ohms to ground

POWER

Power Source: Two legs of 208 VAC, 3 phase, 60 Hz

Current/Phase: 7.0 amps (disks in motion)
3.0 amps (disks at rest)

PHYSICAL

Height: 38 inches Depth: 37½ inches
Width: 27½ inches Weight: 500 pounds

Environment (operating) —

Temperature: 60 to 90°F

Humidity: 10 to 80 percent R.H. (noncondensing)

Environment (nonoperating) —

Temperature: minus 30 to plus 150°F

Humidity: 5 to 95 percent R.H. (noncondensing)

Heat Dissipation: 2900 BTU/Hr.

Specifications are subject to change without notice.

CONTROL DATA SALES OFFICES ARE LOCATED IN PRINCIPAL CITIES THROUGHOUT THE WORLD.

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